

## **Bechtel Jacobs Historical Data II**

### **Surveillance and Maintenance of Facilities**

#### Paducah Site:

- Refer to other files in this posting section. Past history has shown that maintenance cost is comprised of approximately 80 percent labor and 20 percent material.

#### Portsmouth Site:

- Refer to other files in this posting section. Past history has shown that maintenance cost is comprised of approximately 80 percent labor and 20 percent material.

### **Janitorial Services**

Cleaning Restrooms (a current subcontract description). Restroom fixtures, including toilets, urinals, lavatories, and sinks shall be washed inside and outside utilizing a disinfectant, and shall be free of stains and odors. Floors shall be swept/dust mopped free of dirt and mopped with a disinfectant. Mirrors and all metal fixtures shall be cleaned. Waste containers shall be emptied and plastic liners replaced. If present, shower stall rooms and locker/dressing rooms shall be considered part of the restrooms, and cleaned accordingly.

#### Paducah Site:

- Window Glass area: Building C-103 has 2 entry doors with estimated glass area of 6 square feet each for a total of 12 square feet.
- Typically, sanitary waste is picked up weekly for work outside the fence and the cost for this service is not available. USEC currently performs janitorial services for facilities inside the fence and the waste from these facilities is combined with other USEC waste.

#### Portsmouth Site:

- Window Glass area to be cleaned:  
Building X-7745, 1st Floor-South has 1185 square feet of interior windows and 575 square feet of exterior windows. Building X-7725B (the DOE Public Information Building) has 12 interior windows and 12 exterior windows for a total of 108 square feet.
- An off-site vendor picks up sanitary wastes on a weekly basis and the current cost of this service is approximately \$7,800 annually.

## **Grounds Maintenance**

### **Paducah Site:**

- Estimates of amount and frequency of snowfall can be determined through various Web sites and other sources such as National Oceanic & Atmospheric Administration (NOAA) publication or web site, [www.noaa.gov](http://www.noaa.gov). Sites at [www.weather.com](http://www.weather.com) and [www.wunderground.com/US/KY/Paducah/KCMH.html](http://www.wunderground.com/US/KY/Paducah/KCMH.html) also provide such information.
- Currently there are no bridges maintained or no culverts identified for repair. Over the past two years, two culverts (one inside the plant fence and one outside) have required repairs.
- The trees, stumps, branches, and overgrowth are removed as needed. An annual walk-down of all mowing areas has been performed the past two years. During these walk downs, hanging branches that extend into the path of mowing equipment have been cut to allow access to complete task and provide passage for the driver of the mowing equipment. It has been necessary to remove branches/trees along McCall road only once in the last two years.

### **Portsmouth Site:**

- An estimate of amount and frequency of snow can be determined through various Web sites and other sources such as National Oceanic & Atmospheric Administration (NOAA) publication or web site, [www.noaa.gov](http://www.noaa.gov). Sites at [www.weather.com](http://www.weather.com) and [www.wunderground.com/US/OH/Piketon/KCMH.html](http://www.wunderground.com/US/OH/Piketon/KCMH.html) also provide such information.
- The repair and replacement of signs, fences, gates, etc, has been minimal with no pattern or frequency for performing this type of work. The work is performed on an as needed basis.
- The bridges and culverts are in acceptable condition.

## **Roadway Maintenance**

### **Paducah Site:**

- In the past three years, only one guardrail installation was completed as maintenance to improve safety at a culvert repair site.
- For additional information refer to other documents in this posting section.

Portsmouth Site:

- In the past five years there have been no guardrail inspection, repair, and replacement. Historically, the perimeter road guardrail system has been and is currently maintained by USEC.
- For additional information refer to other documents in this posting section.

**Fleet Management**

Paducah Site:

- All of the vehicles at Paducah used by the contractor are DOE-owned. The cost breakdown is as follows: FY 02 - Fuel \$23K, Maintenance \$44K, Total \$67K; FY 03 - Fuel \$28K, Maintenance \$37K, Total \$65K. The DOE Paducah Site Office has five GSA-leased vehicles; however, these costs are paid directly by DOE to GSA.

Portsmouth Site:

- GSA charges a monthly lease rate per vehicle plus a charge per mile which covers fuel and maintenance. For FY 2003 total charges for GSA leased vehicles were \$8,622.
- The DOE-owned vehicles are fueled by USEC and the costs charged to the using contractor. For FY 2003 fuel cost for DOE-owned vehicles was \$2,897. Maintenance on DOE-owned vehicles is performed by USEC and the cost for FY 2003 was \$2,962.

**Real and Personal Property**

Paducah Site:

- The past level of surplus/excess property was not significant. The majority of such property was ADP equipment which was transferred to Oak Ridge for refurbishment in the recycling program. However, the amount of surplus/excess property could increase if a substantial amount of property is de-leased by USEC.
- In the past five years, one public sale has been conducted at the site.
- The gifts and donation program for excess property and materials has not been utilized for several years since computer-related equipment from Paducah was recycled.

#### Portsmouth Site:

- Over the past couple of years many excess items were transferred or donated, so there is very little that remains to be disposed.
- The site does not have a location for storage of excess property or a location for sales to be conducted. It is expected that the amount of excess equipment will increase when USEC de-leases additional items.

### **Environmental, Safety, and Health (ES&H) Program**

#### Paducah Site:

- There were an estimated 1650 radiological surveys conducted in 2003 for work consistent with the scope of the infrastructure solicitation.
- The Infrastructure solicitation statement of work will primarily involve general industrial type hazards with Level D or Level C protective equipment (i.e. hard hats, steel toe boots, safety glasses, gloves). Some work in and around radiological areas and nuclear facilities may also be required. Protective equipment appropriate for that work should be defined in work planning documents (i.e. radiological work permits, activity hazard analyses, etc.) developed based on the identified hazards and with worker involvement.

#### Portsmouth Site:

- There were an estimated 3750 contamination or radiation surveys performed and about 400 air samples collected during FY 2003 for work within the infrastructure solicitation statement of work. The surveys and air samples collected in future will depend on the amount of radiological work performed. The number of surveys at Portsmouth is higher than at Paducah because there are more multi-use facilities under the infrastructure solicitation statements of work at Portsmouth.
- Currently, workers are typically issued coveralls, steel-toed shoes, and a whole body dosimeter. Additional protection has been required in several facilities which includes hearing, eye, fall, and/or hard hat protection.
- All onsite personnel wear a whole body dosimeter to address nuclear safety concerns. About 600 dosimeters are routinely issued with two-thirds of them issued quarterly for routine personnel and the remaining one-third issued annually for emergency use

only (Personal Nuclear Accident Dosimeter). A small number of neutron dosimeters (estimated 12) are issued quarterly. Electronic Pocket Dosimeters are employed only on as needed basis to address specific nuclear safety concerns. A urine bioassay program is used in conjunction with a personal air sampling program for radiological workers to address internal dose concerns.

- The radiological work may require additional personnel protective equipment such as Anti-C coveralls (disposable, re-useable or flameproof, for hot work), hood, booties, and gloves, respiratory protection with either a full-face negative-pressure filtering or air line continuous flow respirator. The bubble hood air line respirators may also be employed to address heat stress concerns.
- The work under wet/liquid conditions may include splash protection, such as splash proof coveralls, face shields, and/or protective gloves.

## **Other Activities**

### **Mail Service**

#### **Paducah Site:**

- The volume of intra-site mail handled is not tracked.
- The incoming mail to the site is delivered by the U.S. Post Office to the Kevil facility on a daily basis.
- Currently, the mail is sorted and distributed by organization and subcontractor by placing in mail bins located in the Kevil facility.
- The post office picks up outgoing mail each afternoon Monday through Friday.

#### **Portsmouth Site:**

- Intra-site mail has been processed at a central drop-off/pickup area by USEC.
- The mail to and from USEC has been delivered and picked up from select onsite locations (i.e. BJC, its subcontractors, and DOE) once per day. Mail collected is sorted and processed in USEC or BJC mail rooms. There has been no delivery of mail to individuals or individual subcontractors by BJC or USEC.

- Each subcontractor has been responsible for dropping off and picking up its own parcels at the BJC mail room.
- Mail coming to or from the site has been picked up and delivered at the US Post Office twice daily Monday through Friday.

### Project Controls

#### Paducah Site:

- Historically, an estimated three to 3.5 FTEs/year were required to maintain the project control system associated with the scope in the infrastructure solicitation.

#### Portsmouth Site:

- The current support for monthly reporting, forecasting, baseline change control development, scheduling and estimating, and performance measurement and development of Chief Financial Officer (CFO) crosscuts in support of work similar to the infrastructure solicitation statement of work has historically been an estimated 2.5 FTEs.
- An estimated additional 0.5 FTE has supported the Manager of Projects (MOP) function and site overhead.
- An estimated additional 0.5 FTE has supported safeguards and security.
- The above data does not include any support currently received from BJC in Oak Ridge for the merge of data and roll-up reporting to Headquarters or change control review documentation. In addition, support from the Information Technology organization for system support of both the Project Controls and CFO systems is not included.

### Training

#### Paducah Site:

- Historically, the number of visitors is between 300 and 500 per year and they usually receive only the General Employee Training (GET). However, additional training has been required for work at some locations depending on the hazards and work requirements defined for the particular job.

#### Portsmouth Site:

- The site averages approximately 300 visitors a month. The majority of the visitors are only required to be briefed on the access

requirements. A few visitors have been required to be provided General Employee training and Security training if they were going to be on-site for any length of time. Other training requirements are based on whether the visitors are going to be escorted or not, purpose or location of visit which may require specialty training, such as RAD worker, etc.

### Permits and Licenses

#### Paducah Site:

- The need for specific environmental permits or licenses has not been identified and the level of support for environmental licensing is expected to be minimal.
- Other work related internal permits (such as penetration and lock out/tag out permits) depend on work location, hazards of work, etc. In some cases, interface and cooperation with USEC may be needed when systems serve both entities.

#### Portsmouth Site:

- Currently a portion of this work is performed at the site along with BJC Oak Ridge support as required. The total past effort is estimated at one FTE.

### Citizens Advisory Board (CAB) Representative (Paducah only)

Historically, an average of two FTEs has supported the CAB on a site-wide basis.

### Payment of Residential Water Bills (Paducah only)

The average for the five fiscal years 1999 through 2003 was approximately \$72,000 per year.

### **Support to DOE**

#### Paducah Site:

- Below is a summary of the types of reviews historically performed onsite for work similar to the scope of work reflected in the infrastructure solicitation. However, the estimated time provided is for ALL work at the site currently being performed at BJC. Therefore, the estimated amounts or estimated times provided may encompass more than the scope of work under the infrastructure solicitation:

- ISMS verification review by DOE team has historically been estimated at five to ten days for each review.
  - Records retrieval and reproduction for reviews and inspections has historically been estimated at five days per year. (infrastructure only)
  - Public Affairs effort has historically been estimated at four to eight reviews per year with 20 to 40 hours of preparation.
  - Training has historically been estimated at 12 to 14 days per year.
  - Engineering/nuclear safety has historically been estimated at ten days per year.
  - Security has historically been estimated at two reviews per year with duration of one week each.
  - Project Controls is involved with the GAO review of the Decontamination & Decommissioning fund and that effort has historically been estimated at two days per year in addition to 40 to 50 hours of preparation for the review.
- Below is a summary of work similar to the assistance provided to DOE in relation to DOE's oversight of USEC. However, the estimated time provided is for ALL work at the site currently being performed at BJC. Therefore, the estimated amounts or estimated times provided may encompass more than the scope of work under the infrastructure solicitation :
    - Public Affairs support effort has been estimated at 150 hours annually.
    - USEC records retrieval services for legacy workers' compensation claims have been estimated at 200 to 300 hours annually.
    - Records and documents support services have been estimated at 5 hours annually.
    - IT/Telecommunications effort has been estimated at 200 to 300 hours annually.
    - Lease support effort has been estimated at 200 to 250 man-hours per lease change, with minimum of one change per year.
    - Shared site effort has been estimated at 150 to 200 hours annually.
    - Assistance to DOE in its oversight of work authorization effort under the lease, which includes weekly work control meeting with USEC, maintenance job walk downs (before and after work), invoice reviews, excavation permits, etc. has been estimated at 500 hours annually.



#### Portsmouth Site:

- Below is a summary of the types of reviews historically performed onsite for work similar to the scope of work reflected in the infrastructure solicitation. However, the estimated time provided is for ALL work at the site currently being performed at BJC. Therefore, the estimated amounts or estimated times provided may encompass more than the scope of work under the infrastructure solicitation:
  - Stakeholder tours have been estimated at 20 to 24 per year with two to 50 people on each tour. The duration of tours is generally one day in addition to preparation time of up to a week depending on the complexity and number of attendees.
  - Stakeholder public meetings have been estimated at five or six per year and required approximately one week of preparation for each meeting.
  - Requests for information have been estimated to average one per month in addition to those documents requested through the EIC.
  - Support to the DOE Site Office for DOE HQ requests vary and have been difficult to predict.
  - Regulatory meetings of which there is generally at least one monthly.
  - The Ohio EPA project coordinator visits the site weekly.
- Below is a summary of the assistance provided to DOE in relation to DOE's oversight of USEC. However, the estimated time provided is for ALL work at the site currently being performed at BJC. Therefore, the estimated amounts or estimated times provided may encompass more than the scope of work under the infrastructure solicitation:
  - Public Affairs support has been estimated at 250 hours annually historically.
  - USEC records retrieval services for legacy workers' compensation claims have been estimated at 200 hours annually. However, note that the need for services could increase dramatically based on final Beryllium Characterization results.
  - IT/telecommunications effort has been estimated at 200 to 300 hours annually historically.
  - Lease support has been estimated at 200 to 250 man-hours per lease change, with at least two changes per year historically. However, this may increase with rapidly changing lease/delease status associated with GCEP.
  - Shared site effort has been estimated at 200 hours annually historically.

- Assistance to DOE in its oversight of work authorization effort under the lease, which includes work authorization coordination and oversight, monthly interface meetings with USEC, maintenance job walk downs (before and after work), invoice reviews, excavation permits, issue resolution, scheduling meetings, facility management interface, etc. has been estimated at 8,000 hours annually historically.

### **Technical Support for Annual Report to Congress on ES&H Conditions**

#### **Paducah Site:**

- In the past there have been two deliverables.
- The first deliverable has been based on a request from DOE to provided information by July 22, on the current fiscal year for October 1 through June 30.
- The second deliverable has been is providing of the last quarter information by October 15 for July 1 through September 30.
- These were the official deliverables, but considerable time has been spent answering questions and making clarifications for the DOE review team and editors over a period of months.
- BJC's scope of work has been estimated to be 250 to 300 hours per year historically. Both the infrastructure and remediation contractors are expected to provide input to this report.

#### **Portsmouth Site:**

- There is a site point of contact that coordinates input for DOE to the Annual NRC Report to Congress. Historically, this has been submitted in two updates (October 1 through June 30 and July 1 through September 30). Currently, there is input from Project Managers and the ES&H organization, summarization of data from occurrence reports, and resolution of questions from reviewers. An estimated 120 to 150 hours annually has been required to support this report which includes an estimated 80 to 100 hours for the site point of contact.

### **Operations and Maintenance of Recirculating Hot Water (RHW) Boiler System (Portsmouth Only)**

The budgeted operations and maintenance cost for the RHW Boiler system in FY04 is \$3.910 million which includes the labor cost for the 14.3 FTEs posted earlier. For a further breakdown of cost refer to the additional document on this subject in this posting section.